

Source: U.S. Environmental Protection Agency, Washington, D.C. August 2004



Illustration of a Combined Sewer System

Figure 8-1

April 2008

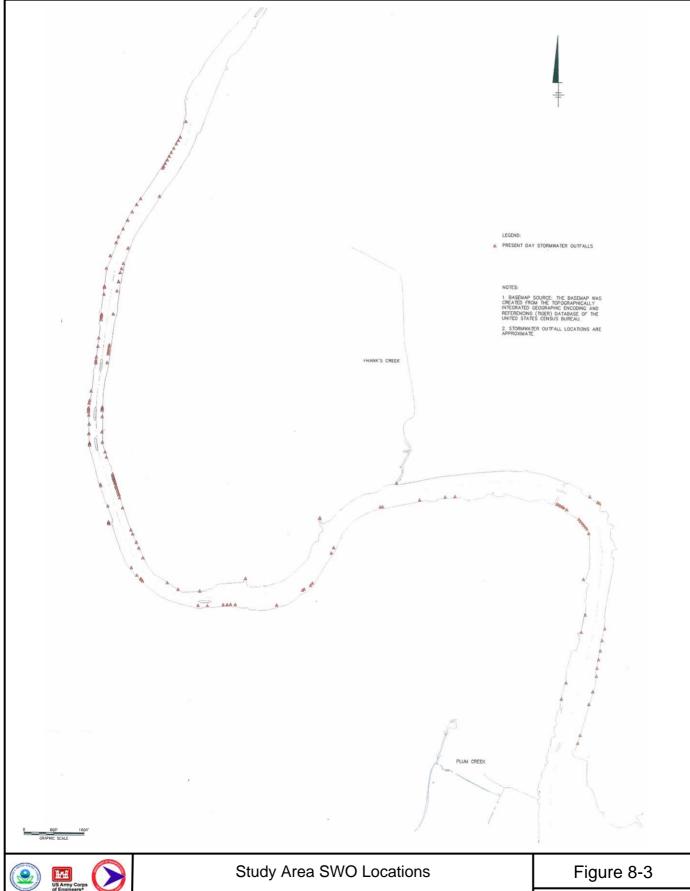




Paterson Area Outfalls

Newark Area Outfalls











and 2001-2004 CARP Program Lower Passaic River Restoration Project

September 2008



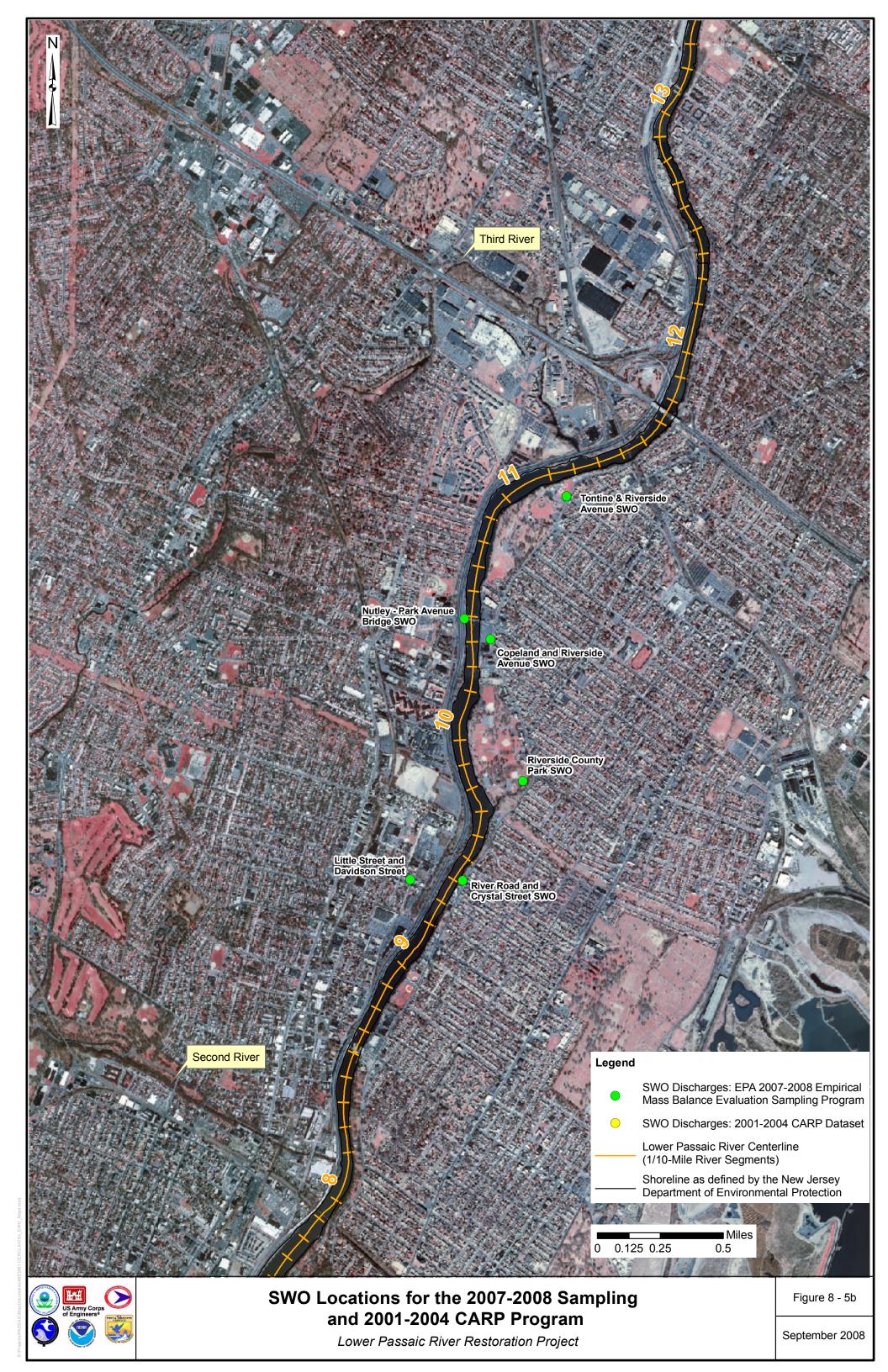


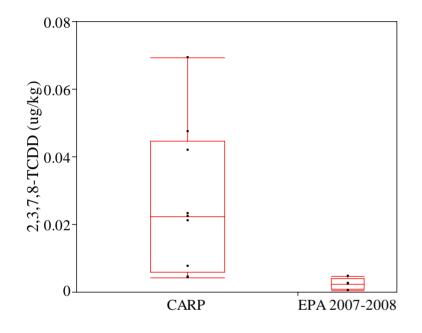


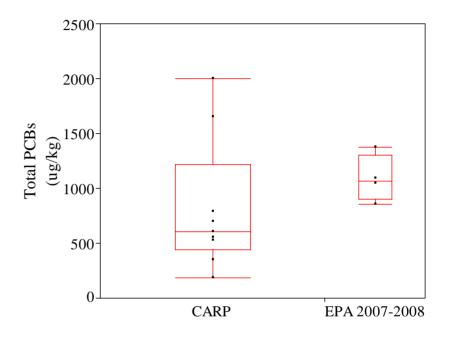
and 2001-2004 CARP Program

Lower Passaic River Restoration Project

September 2008







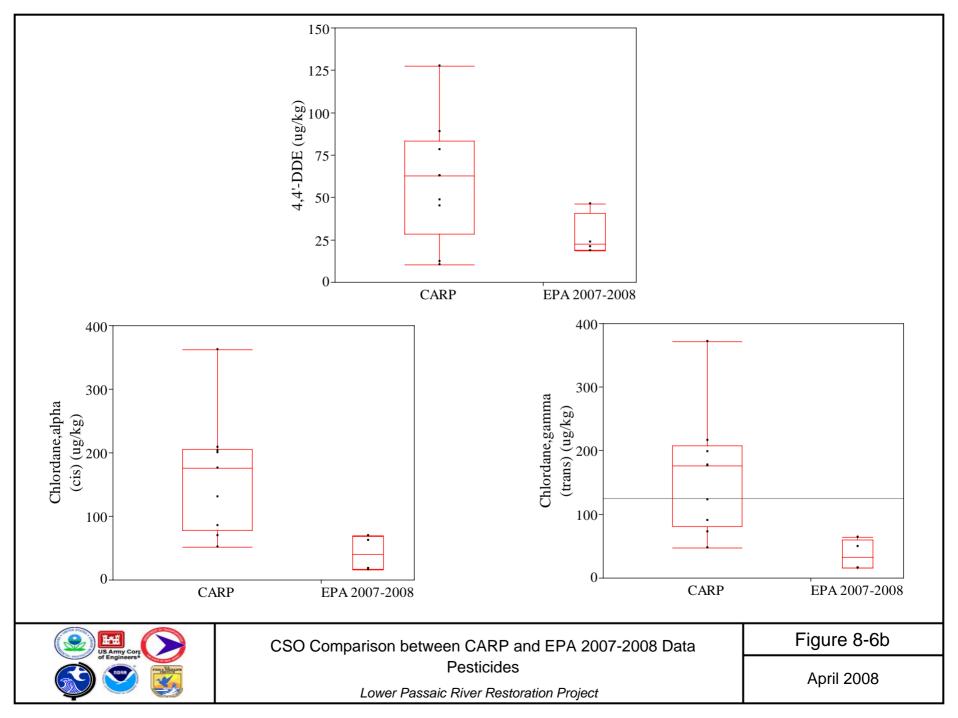


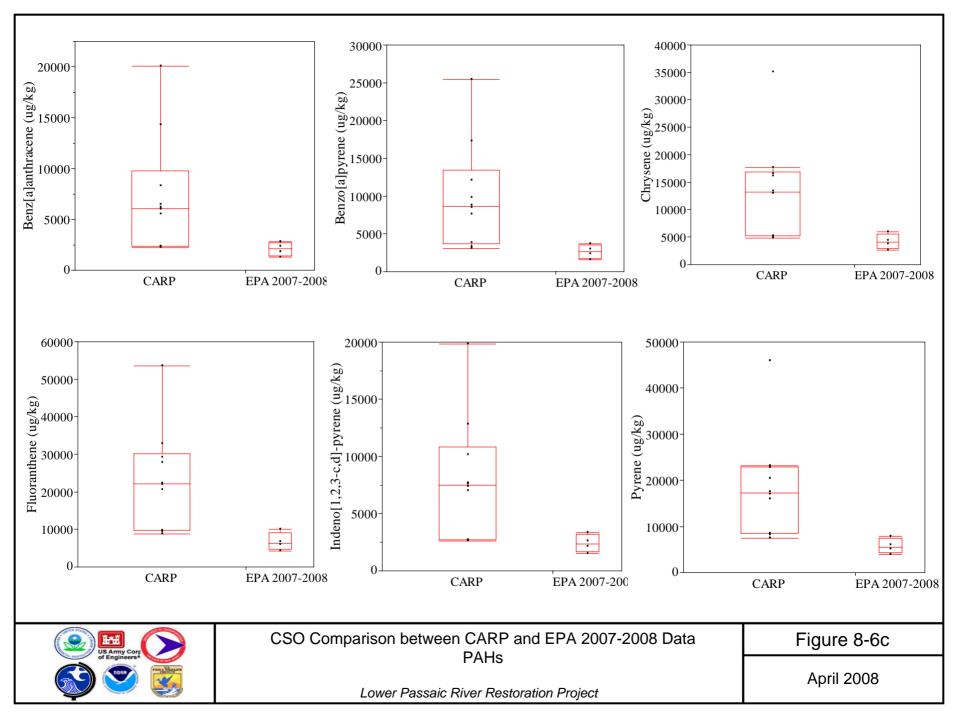
CSO Comparison between CARP and EPA 2007-2008 Data 2,3,7,8-TCDD and Total PCBs

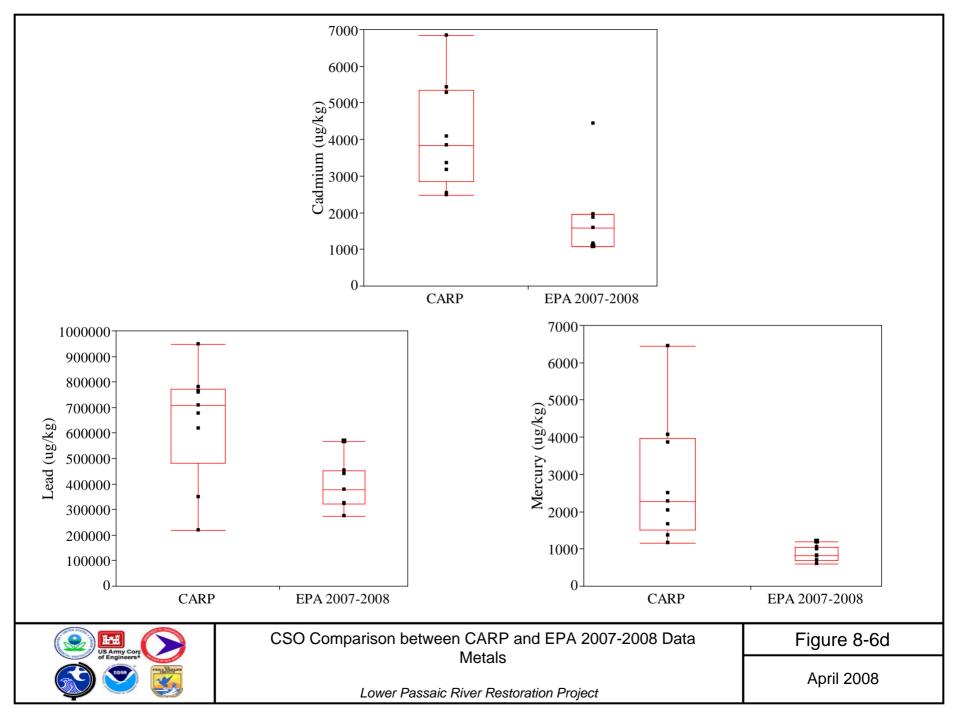
Lower Passaic River Restoration Project

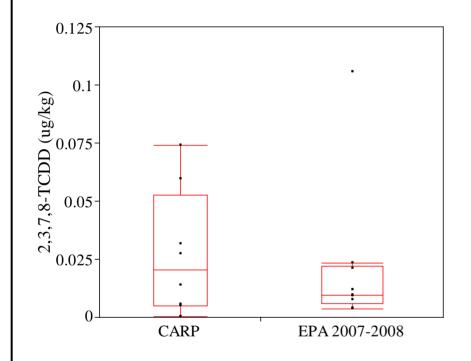
Figure 8-6a

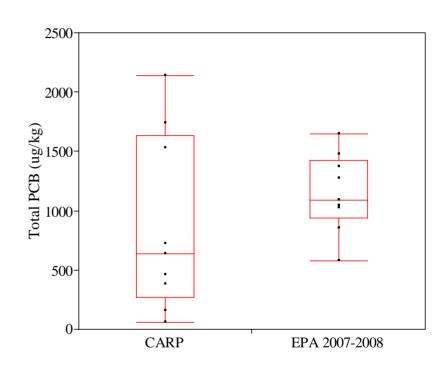
April 2008











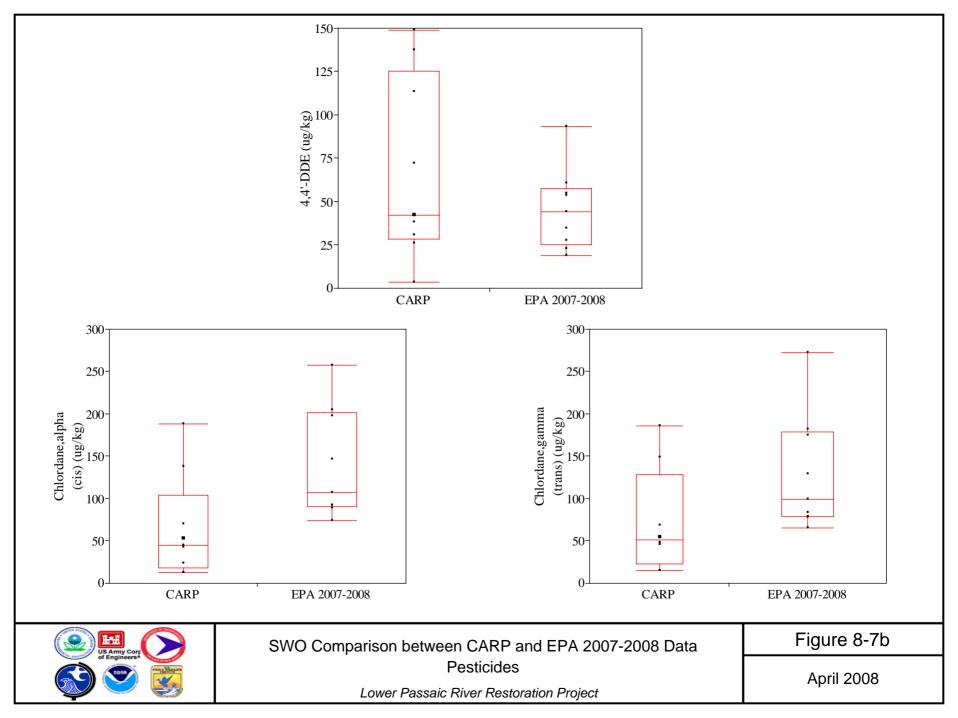


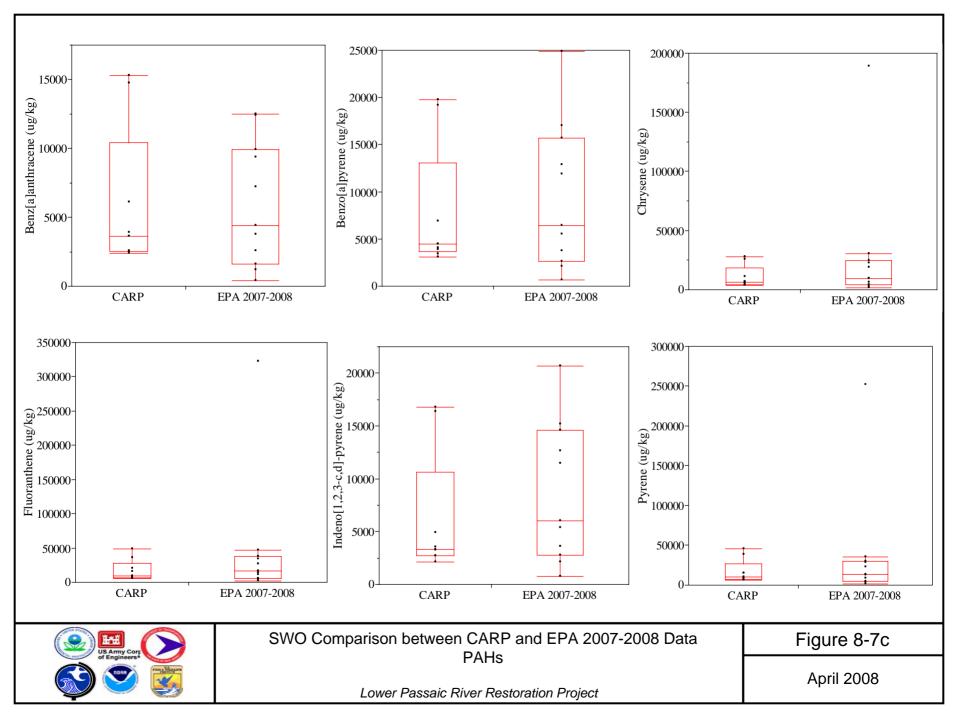
SWO Comparison between CARP and EPA 2007-2008 Data 2,3,7,8-TCDD and Total PCBs

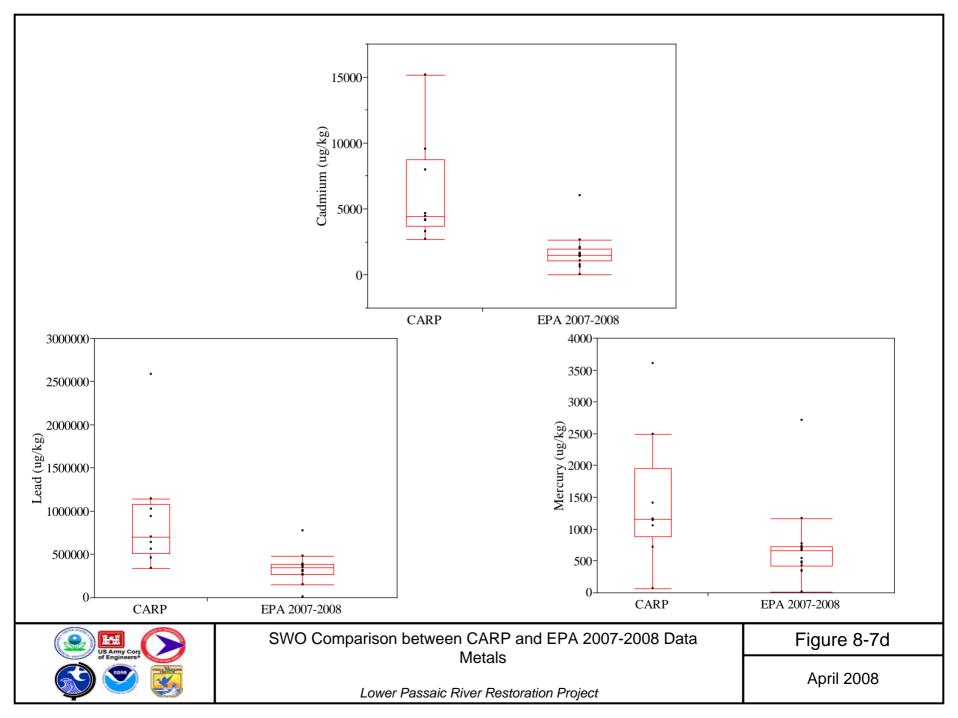
Lower Passaic River Restoration Project

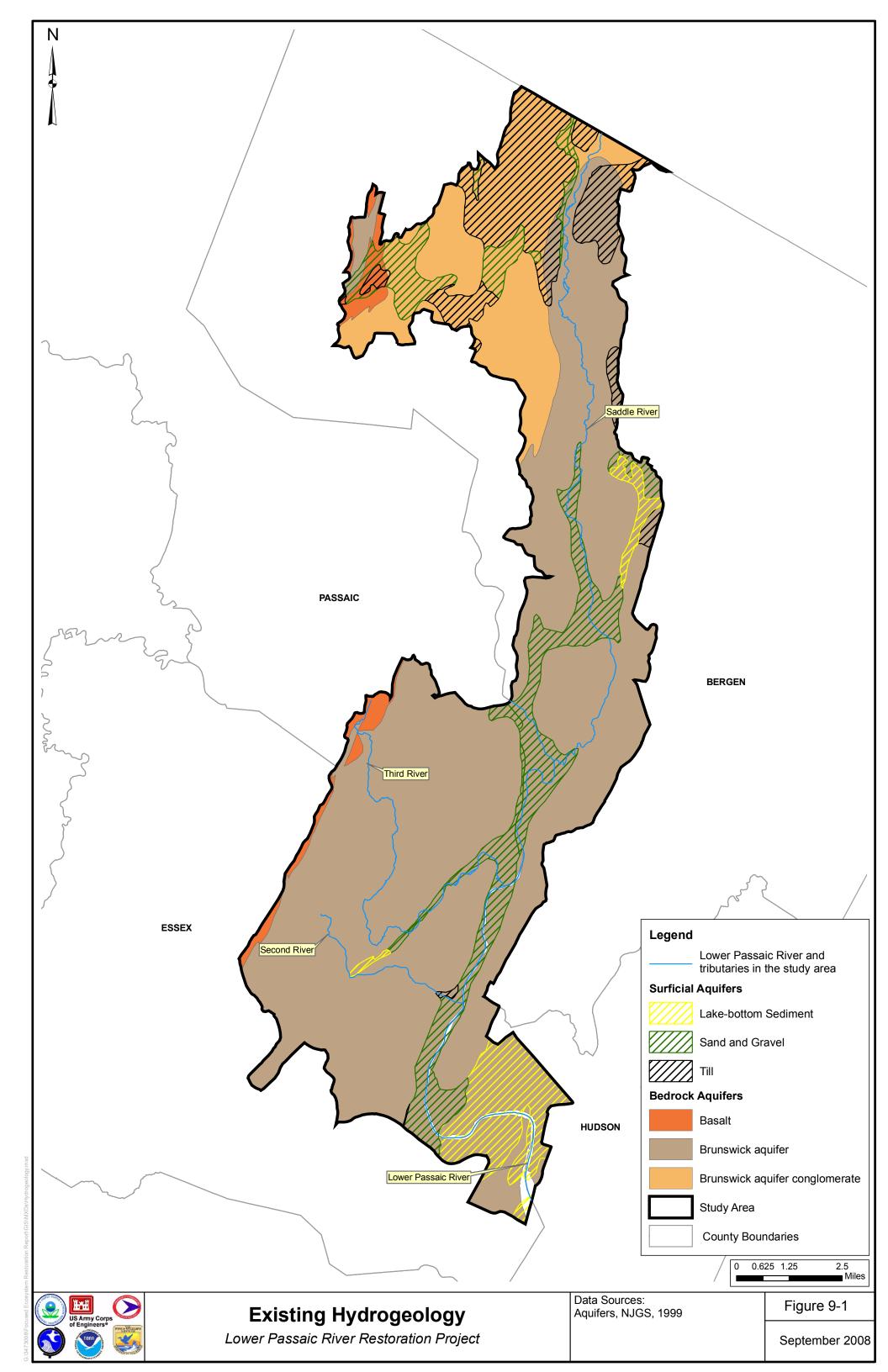
Figure 8-7a

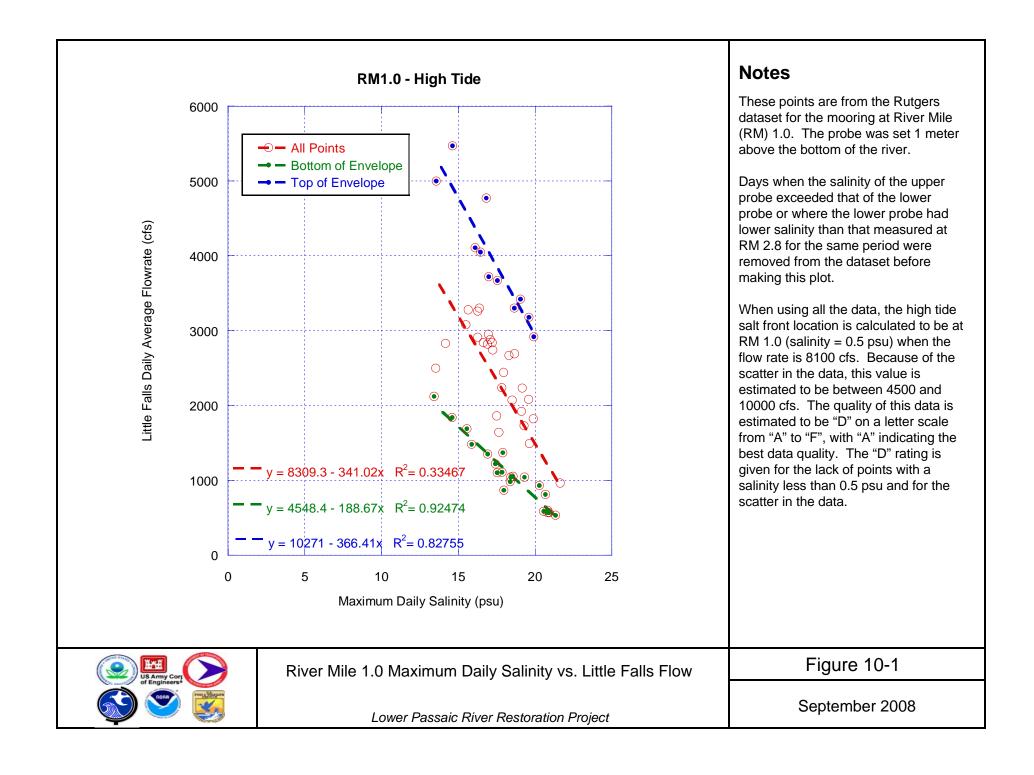
April 2008

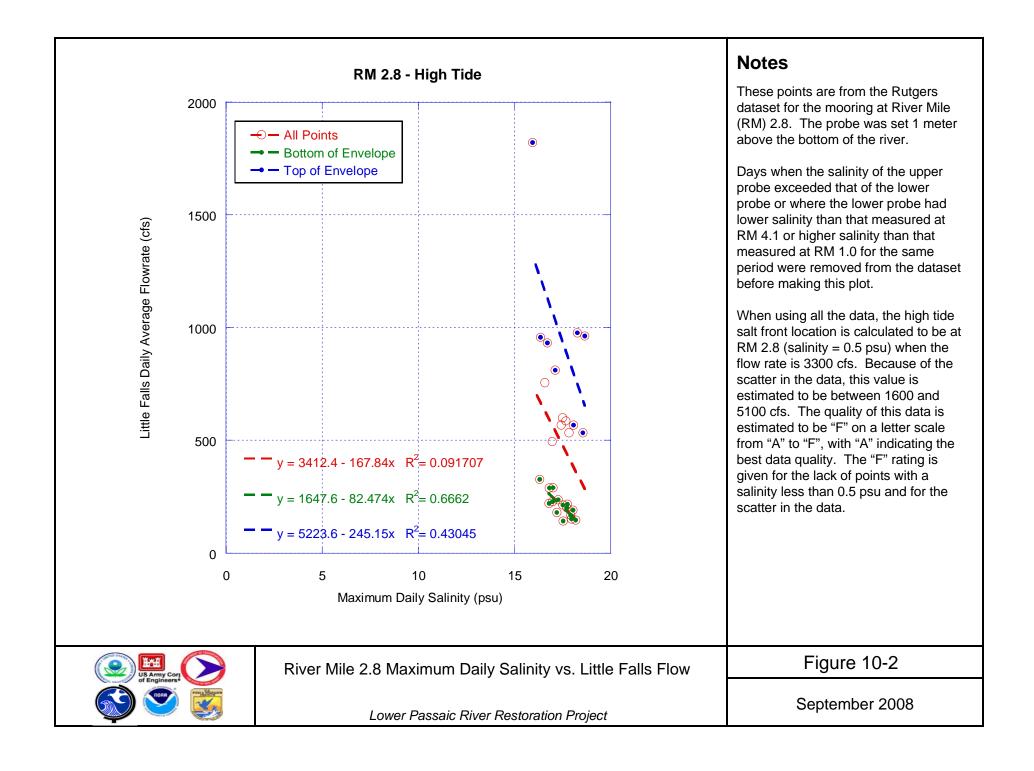


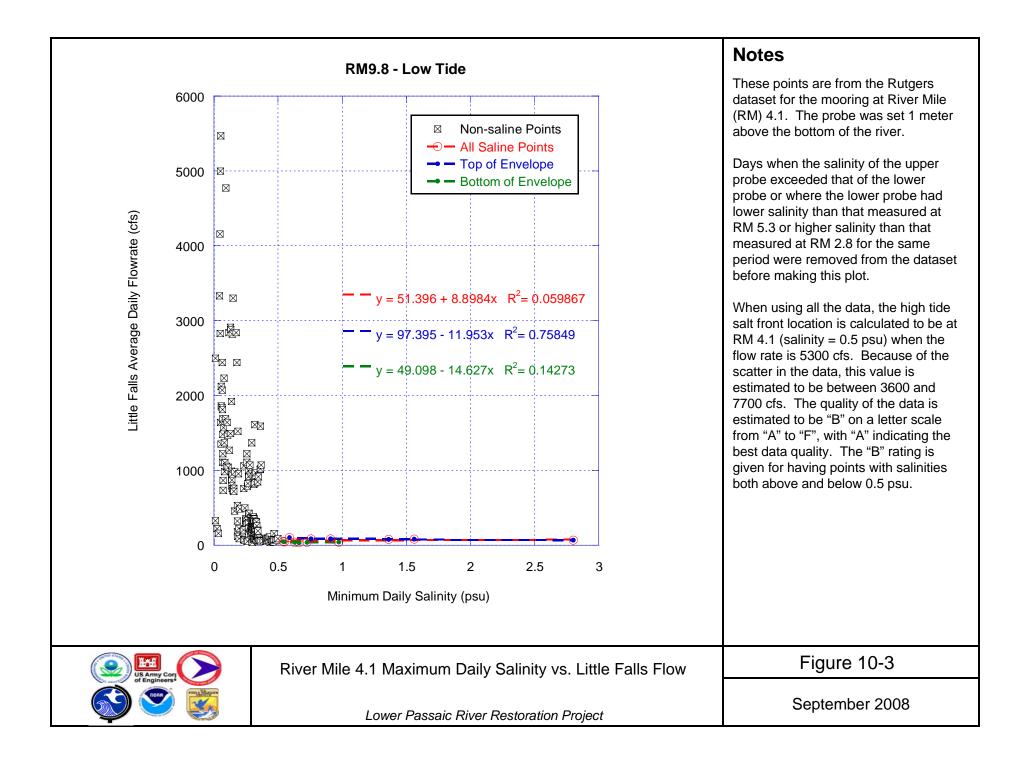


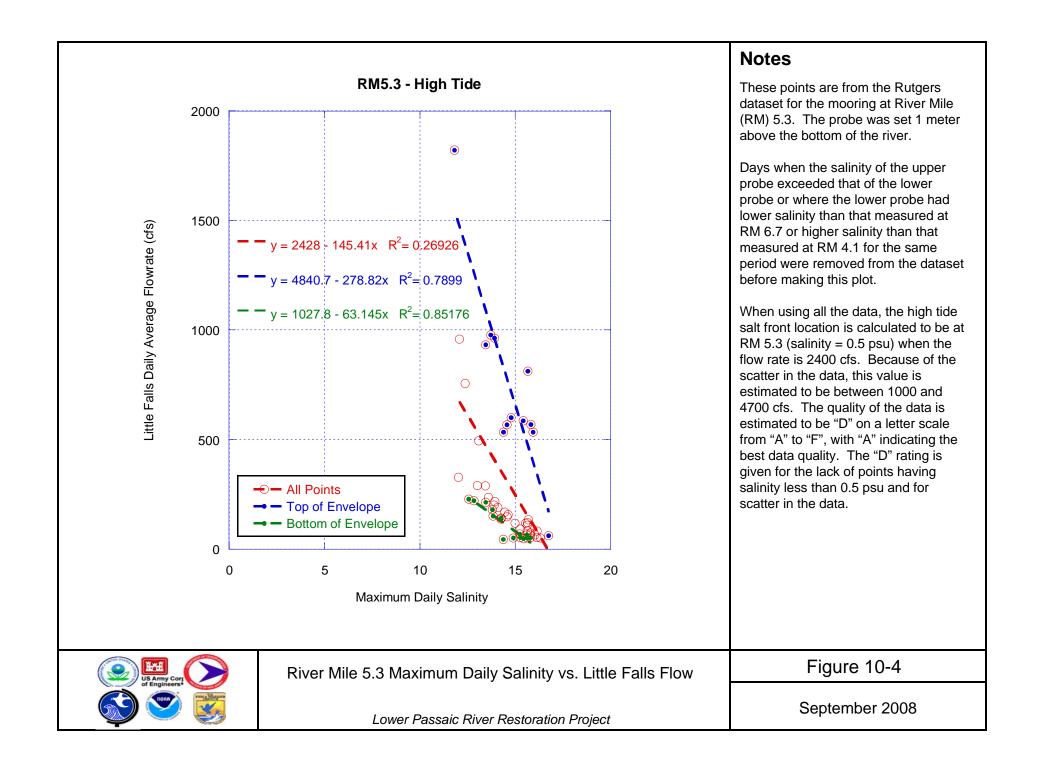


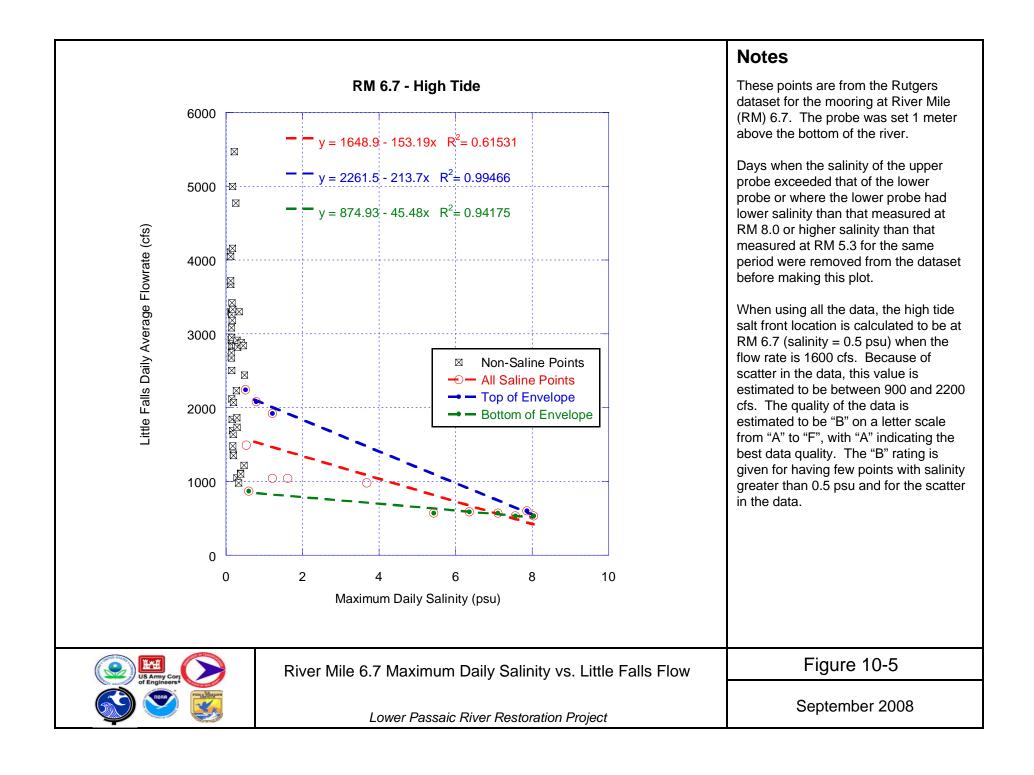


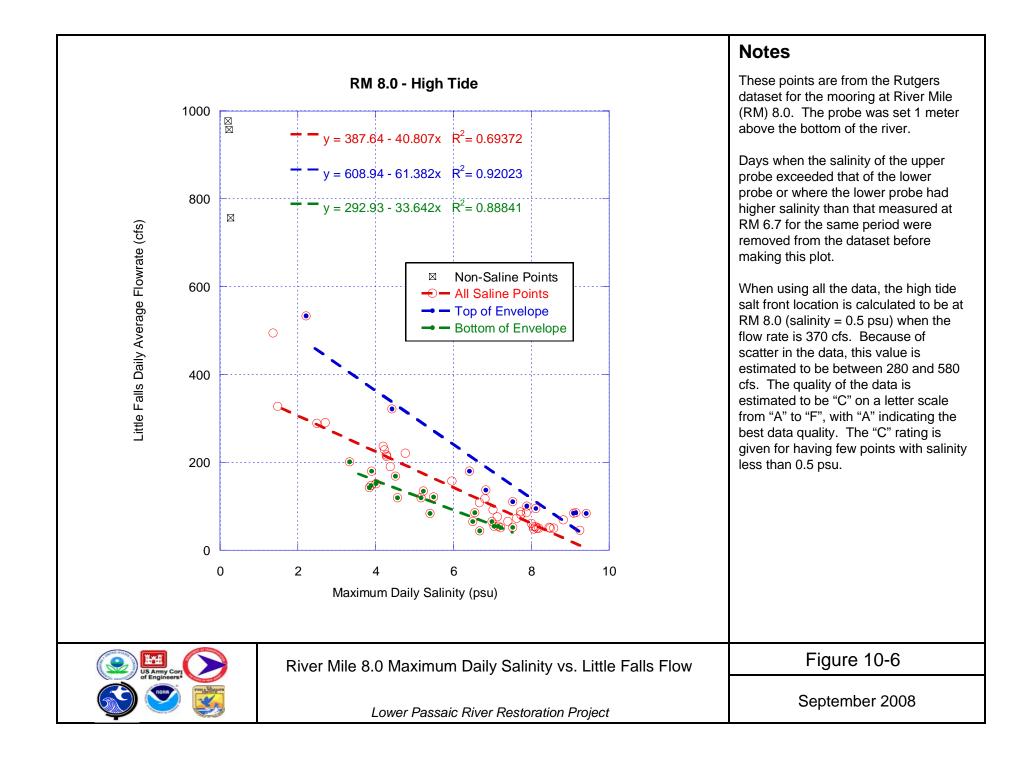


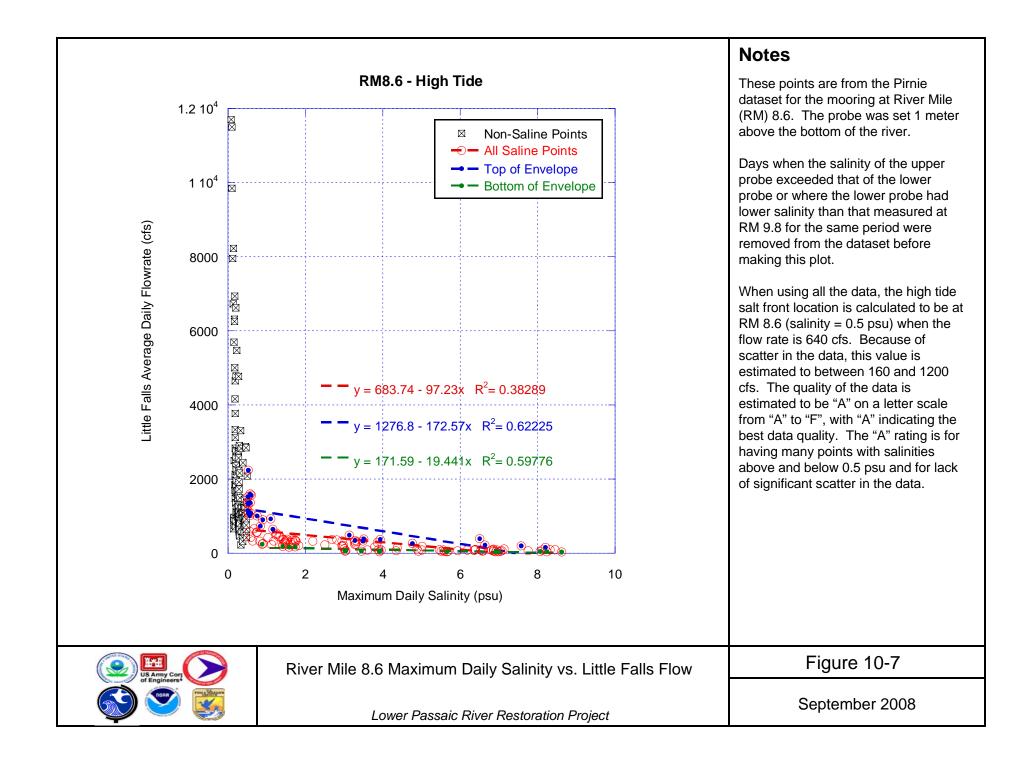


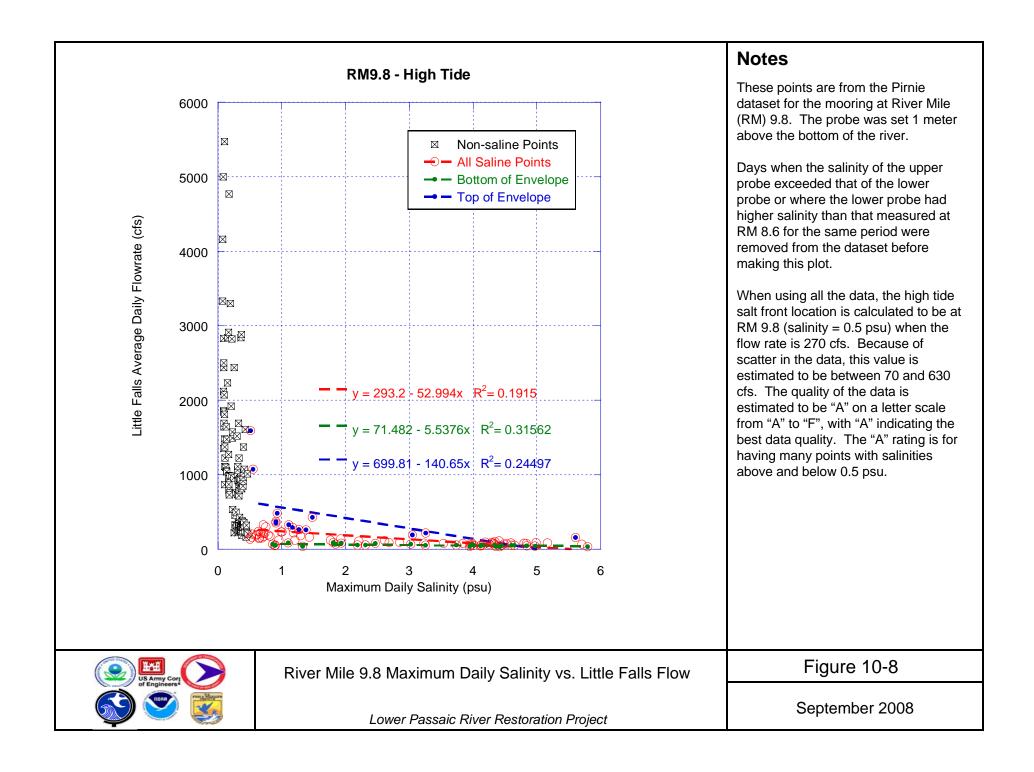


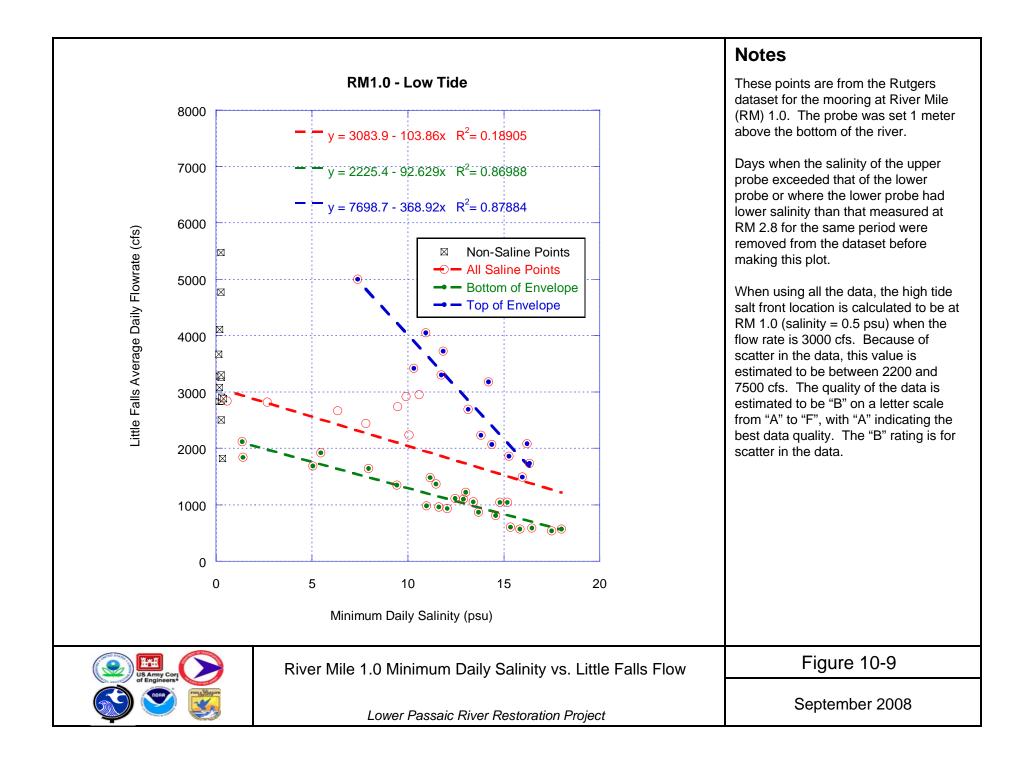


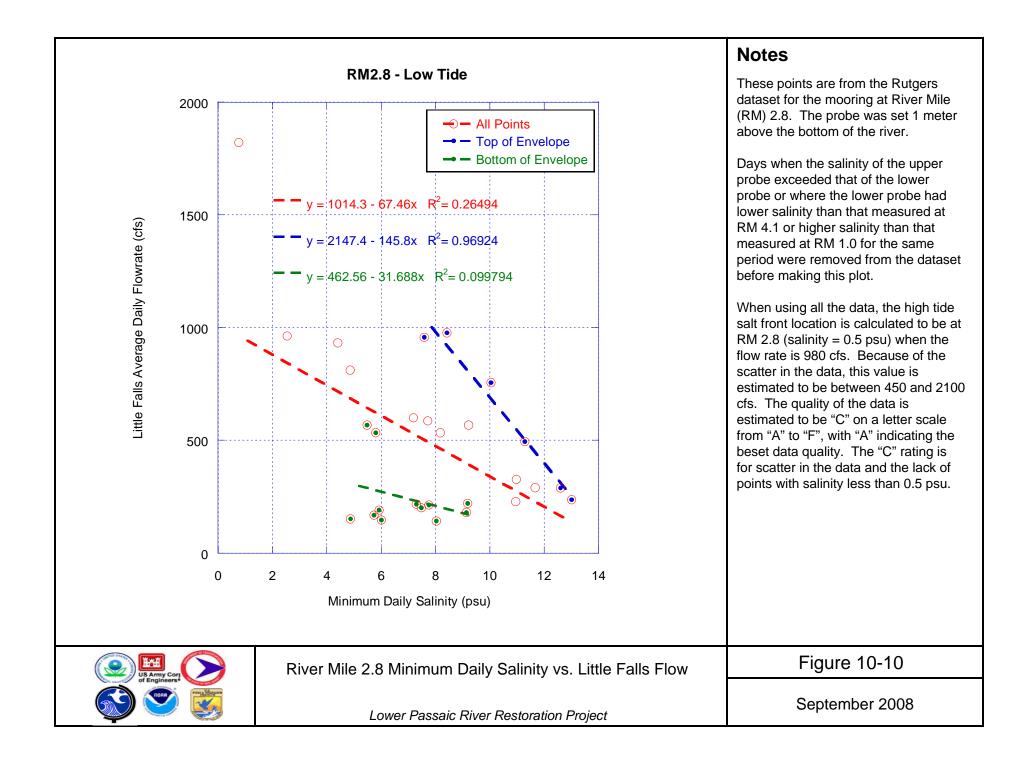


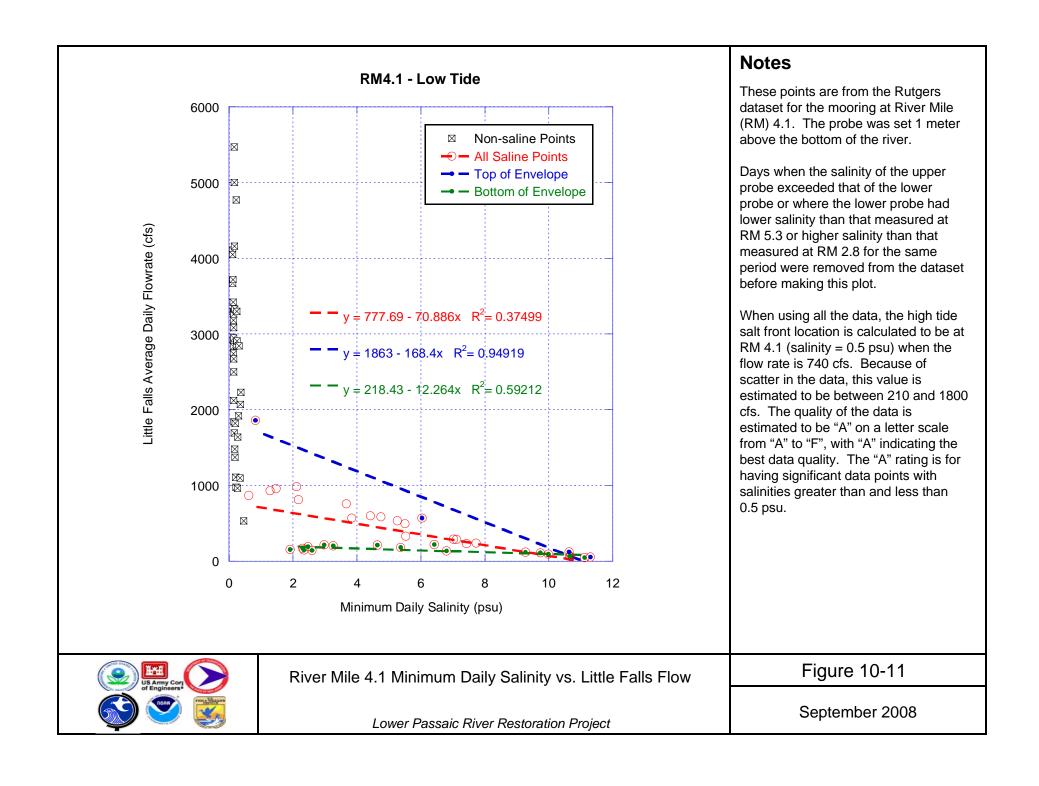


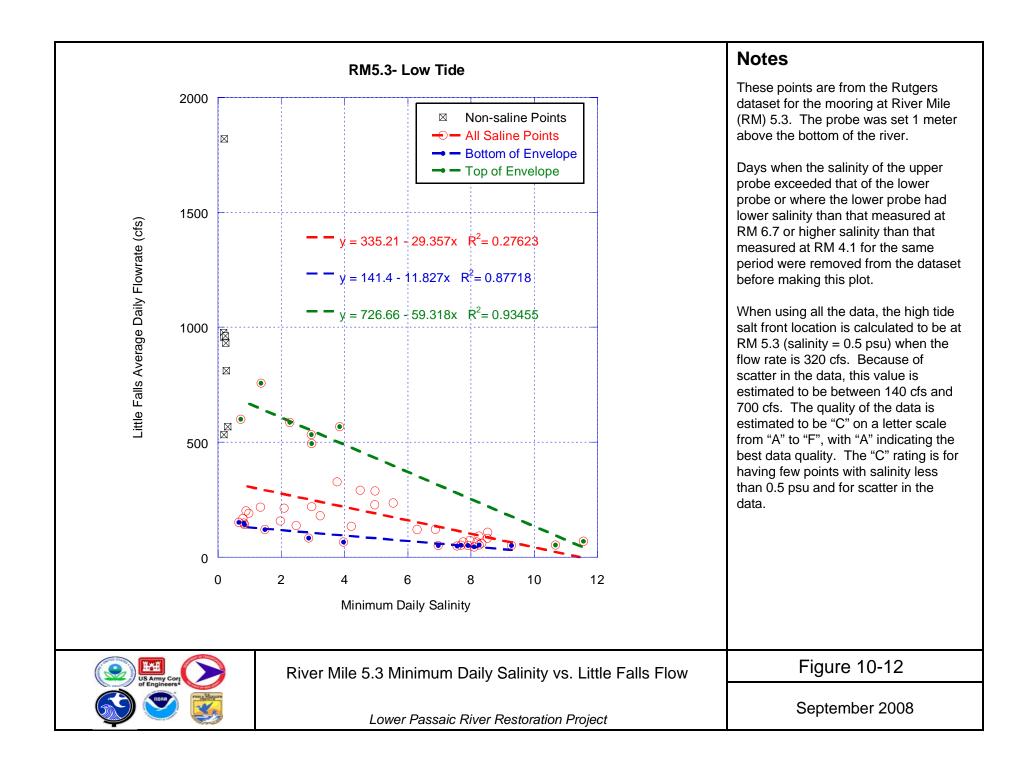


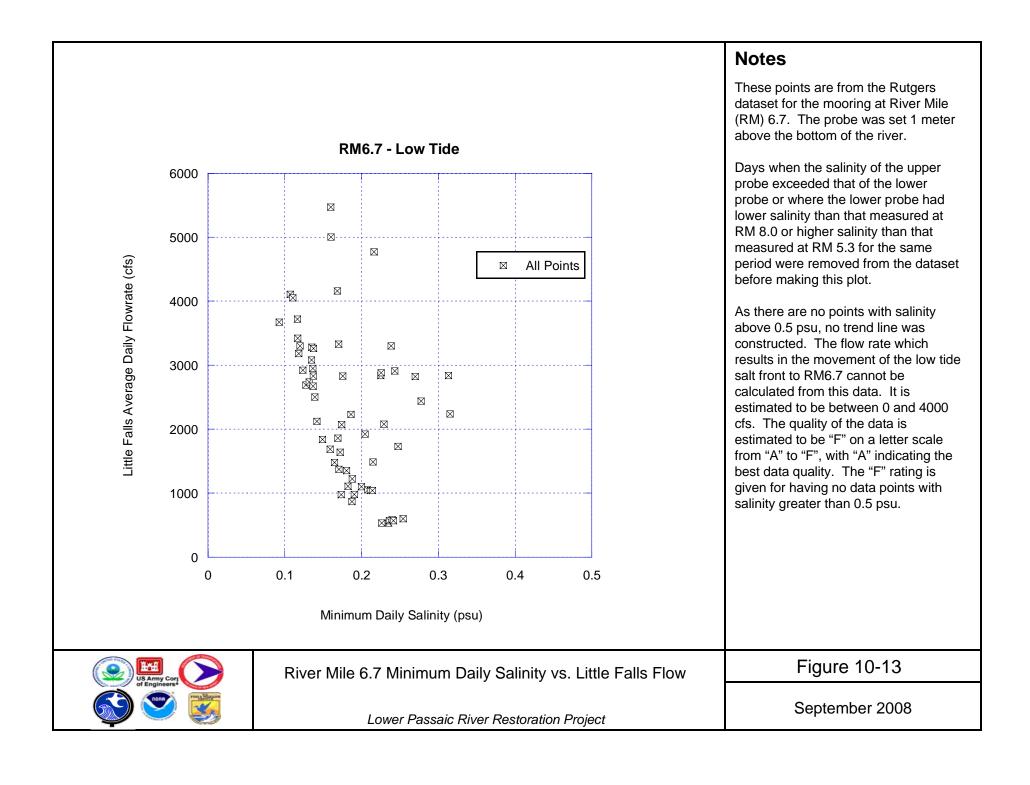


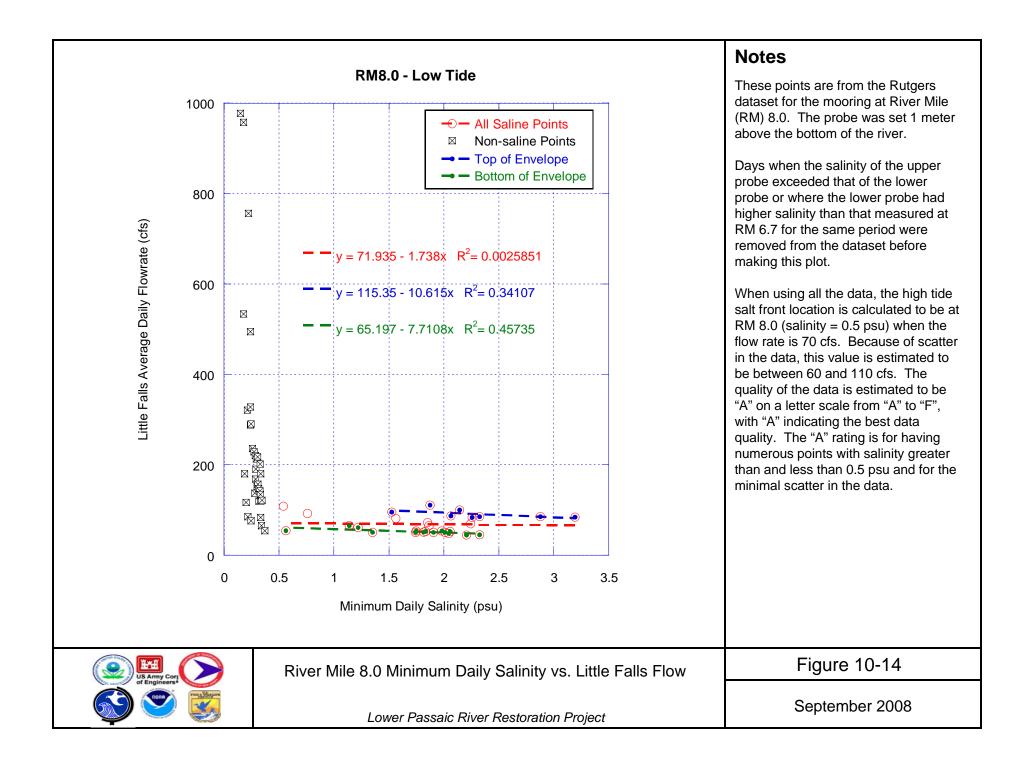


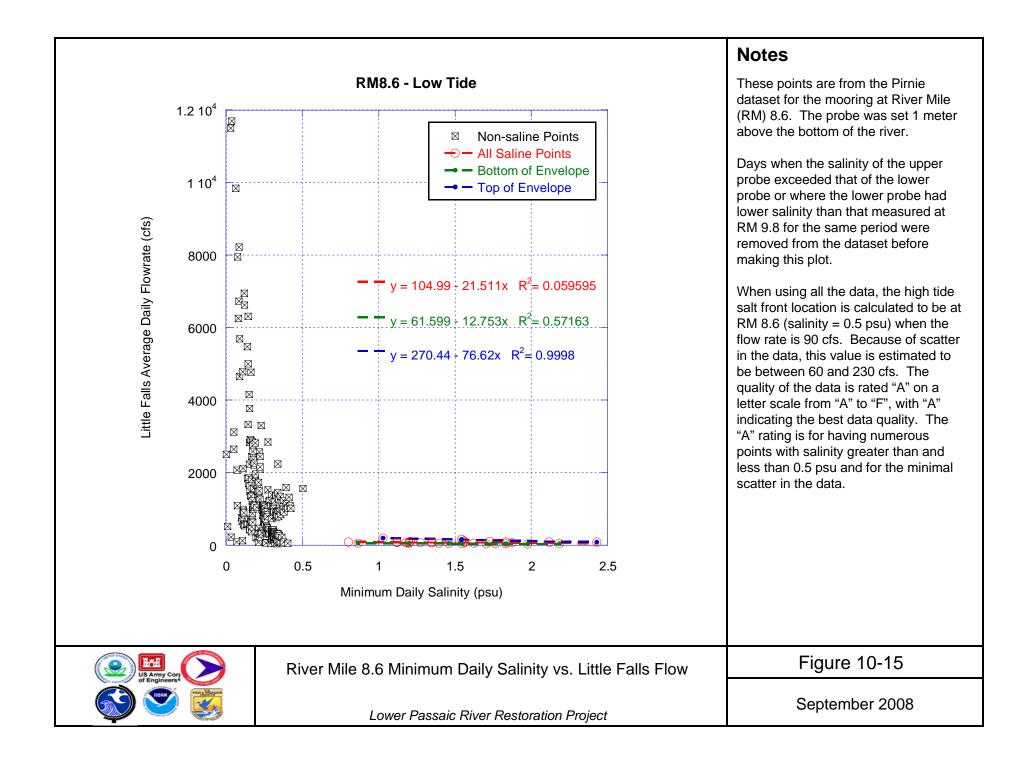


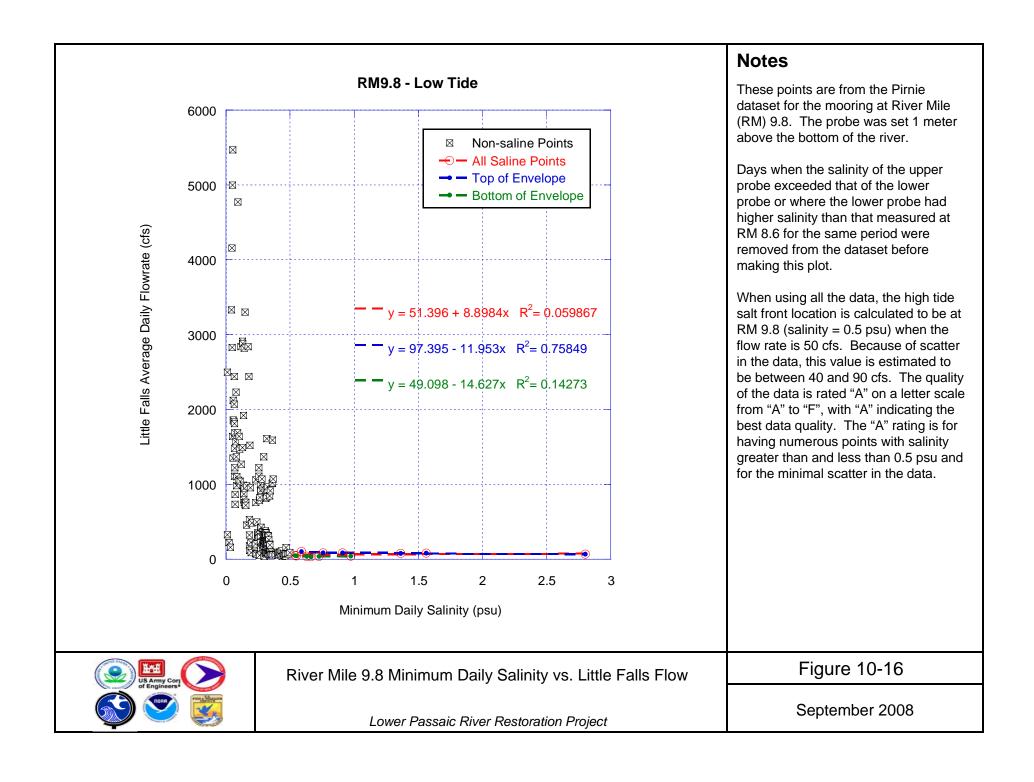


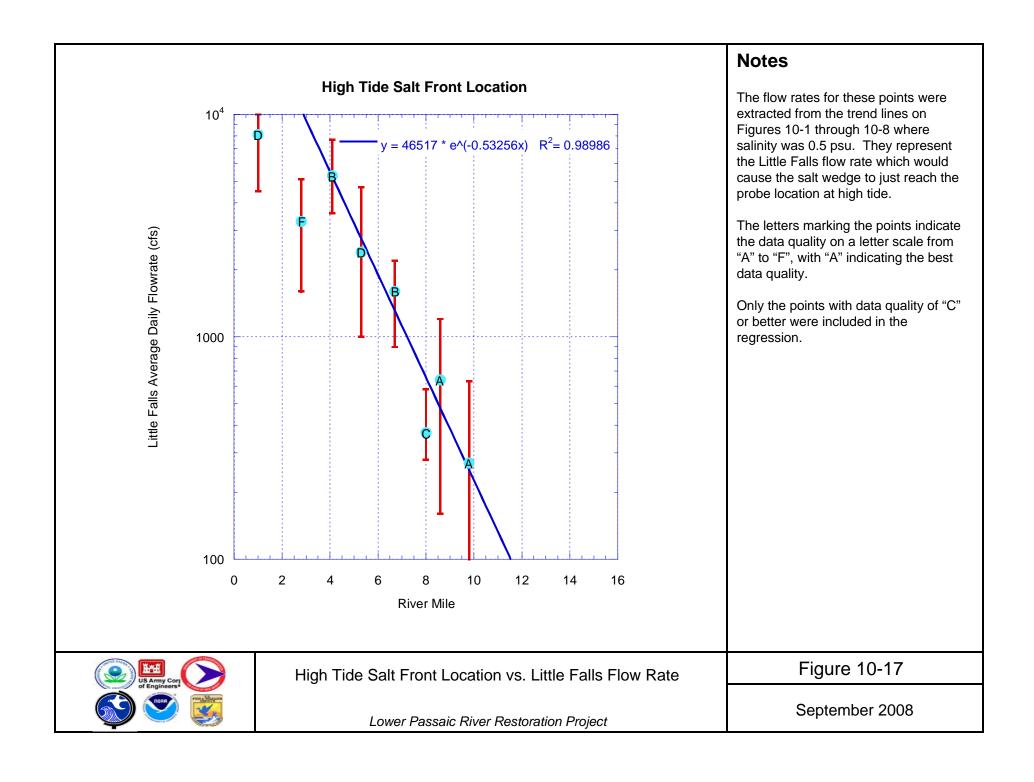


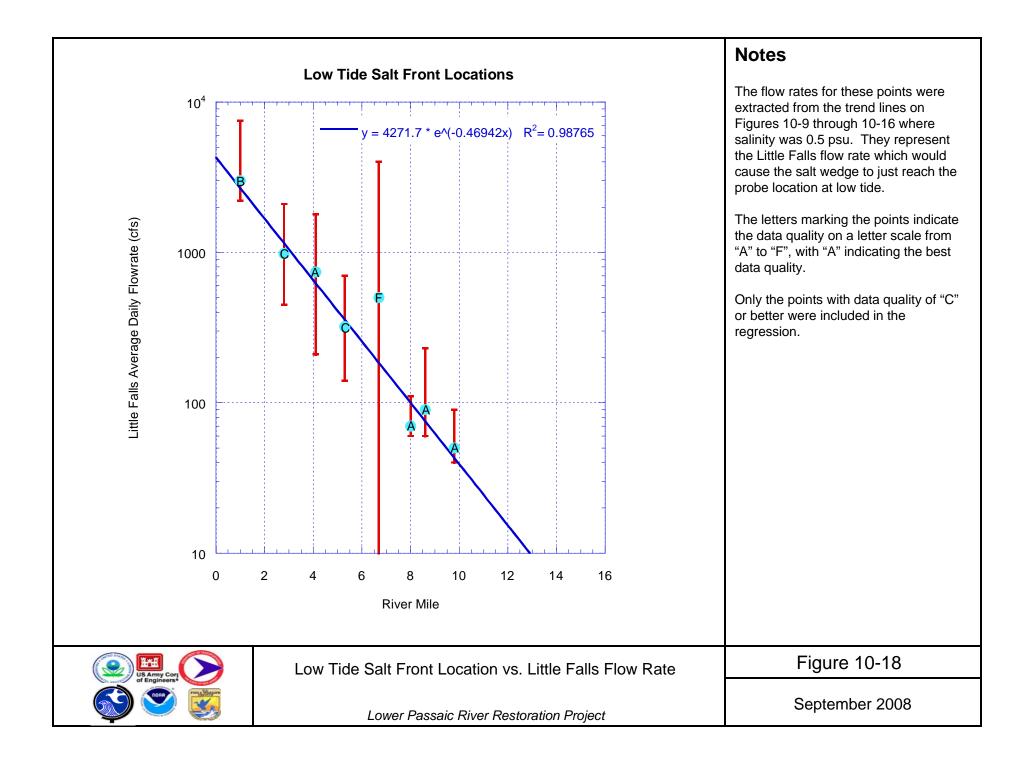


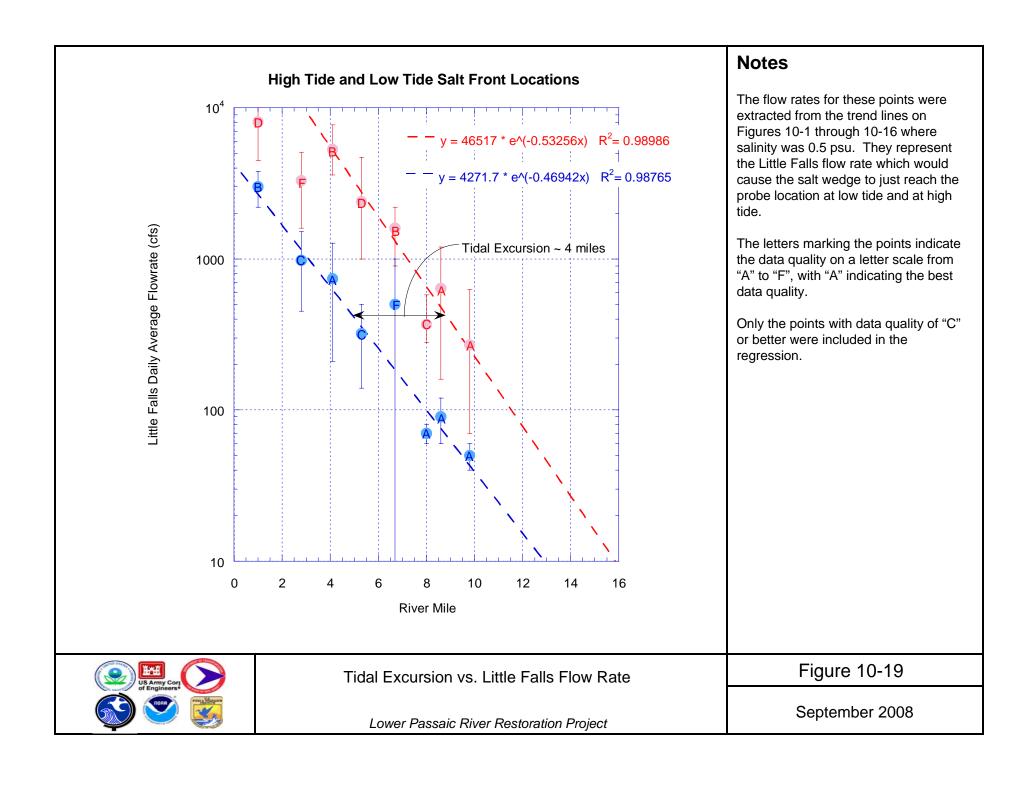


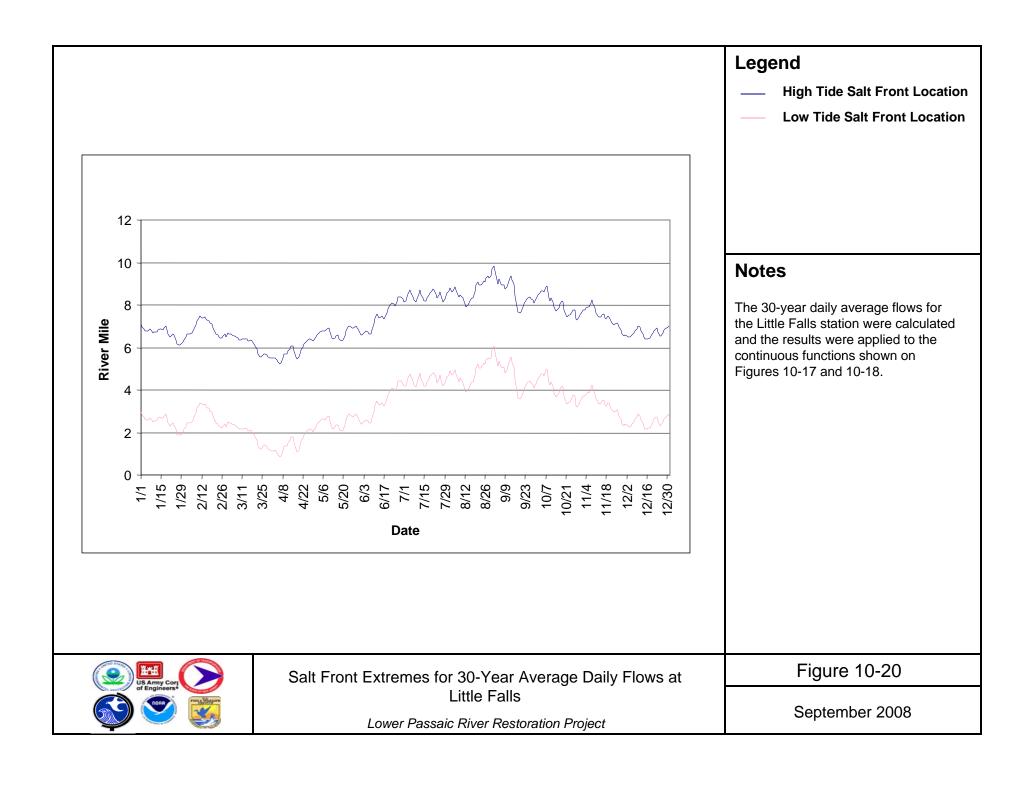


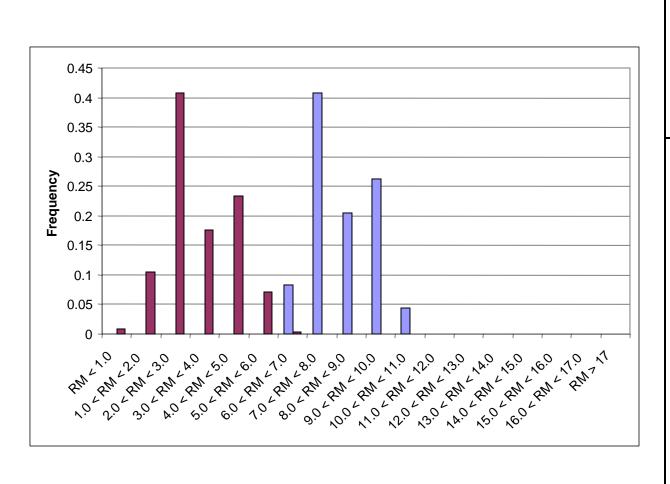




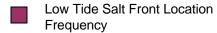












Notes

The 30-year daily average flows for the Little Falls station were calculated and the result was applied to the continuous function shown on Figure 10-17 and 10-18 to create this plot.

The frequencies shown here indicate the fraction of days in the year where the salt front is estimated to be found in each section of the river at high tide and at low tide.

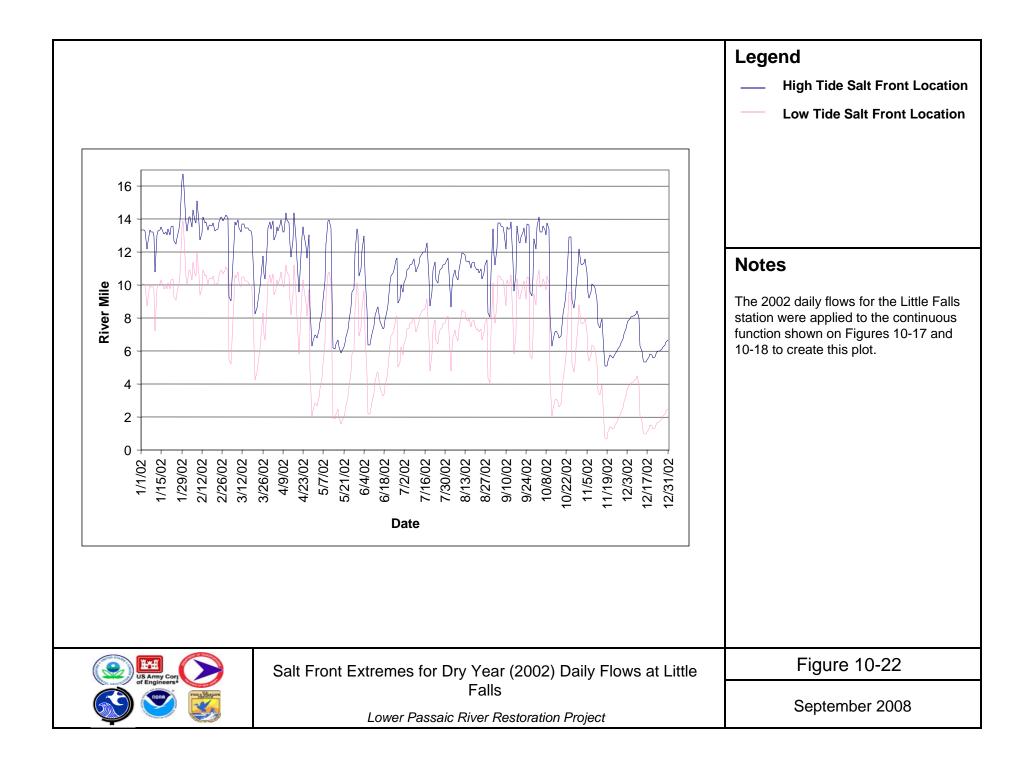
River mile estimates above RM 9.8 represent extrapolations of the trend line and may be less certain.

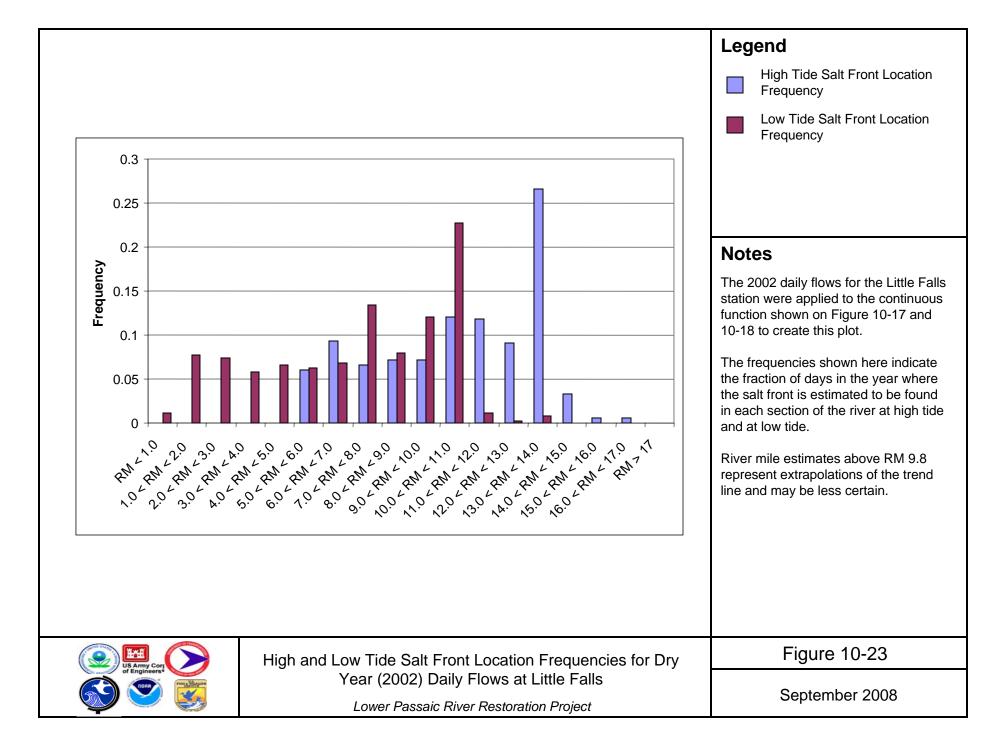


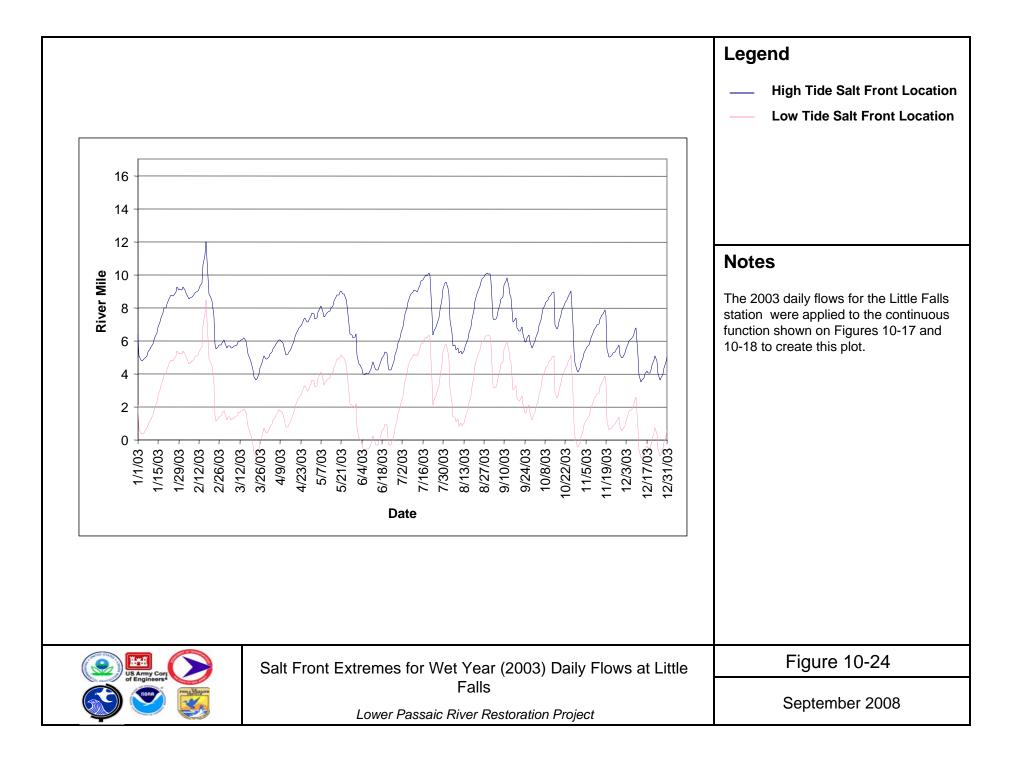
High and Low Tide Salt Front Location Frequencies for 30-Year Average Daily Flows at Little Falls

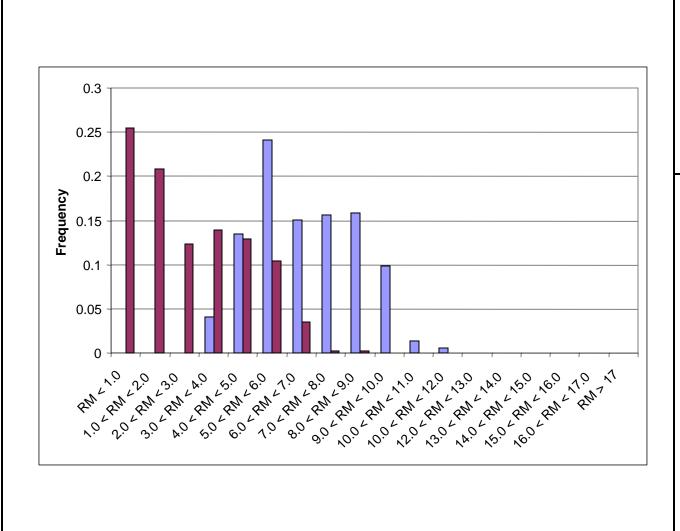
Lower Passaic River Restoration Project

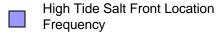
Figure 10-21

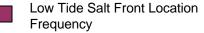












Notes

The 2003 daily flows for the Little Falls station were applied to the continuous function shown on Figure 10-17 and 10-18 to create this plot.

The frequencies shown here indicate the fraction of days in the year where the salt front is estimated to be found in each section of the river at high tide and at low tide.

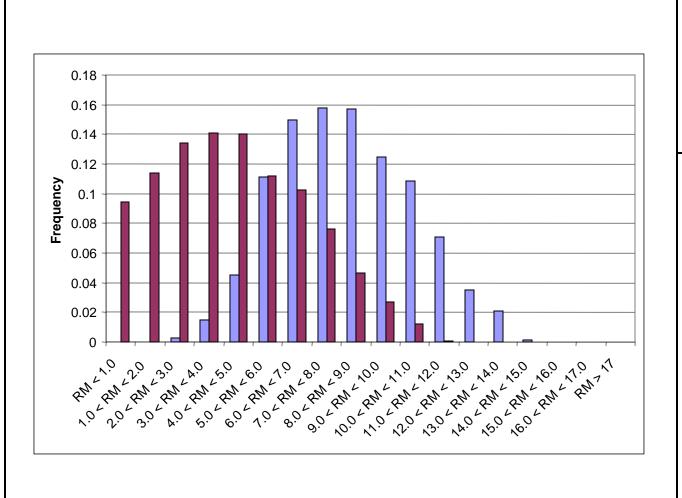
River mile estimates above RM 9.8 represent extrapolations of the trend line and may be less certain.



High and Low Tide Salt Front Location Frequencies for Wet Year (2003) Daily Flows at Little Falls

Lower Passaic River Restoration Project

Figure 10-25





High Tide Salt Front Location Frequency



Low Tide Salt Front Location Frequency

Notes

Thirty years of daily flows for the Little Falls station were compiled and applied to the continuous function shown on Figure 10-17 and 10-18 to create this plot.

The frequencies shown here indicate the fraction of days in the year where the salt front is estimated to be found in each section of the river at high tide and at low tide.

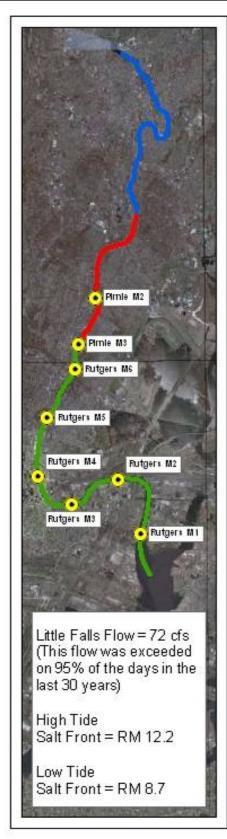
River mile estimates above RM 9.8 represent extrapolations of the trend line and may be less certain.

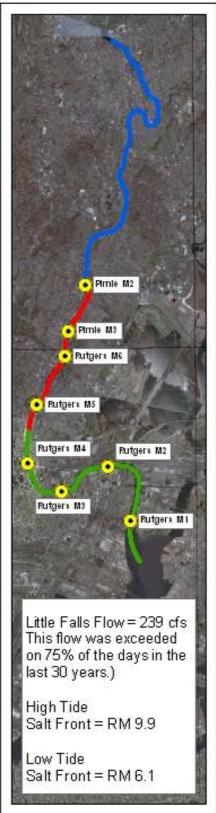


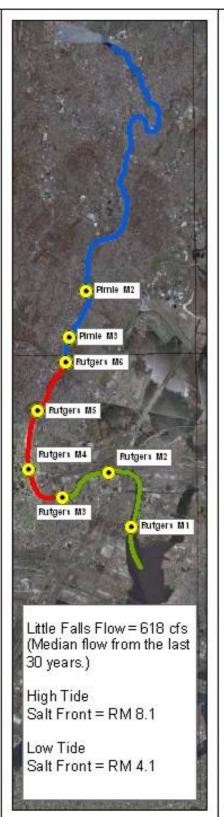
High and Low Tide Salt Front Location Frequencies for 30 Years of Daily Flows at Little Falls

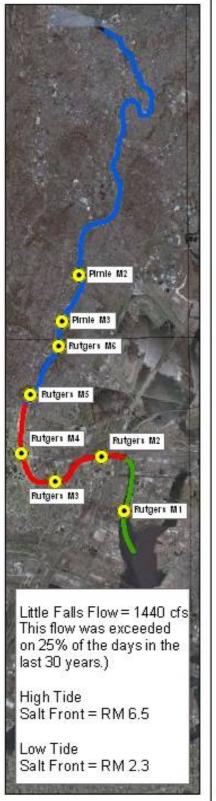
Lower Passaic River Restoration Project

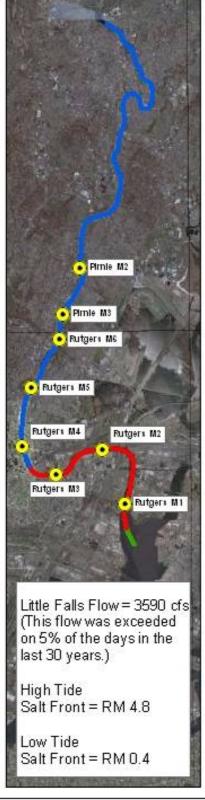
Figure 10-26











- Section of the River which is Saline All Day (Below Low Tide Salt Front Location)
- Section of the River which is Variably Saline During the Day (Between Low and High Tide Salt Front Locations)
- Section of the River which is Fresh All Day (Above High Tide Salt Front Location)
- Salinity Probe Mooring Location

Notes

Thirty years of daily flows for the Little Falls station were compiled and the frequency of exceedence was calculated for each flow condition. The flow rates for 95%, 75%, 50%, 25% and 5% exceedence were applied to the continuous function shown on Figure 10-17 and 10-18. The resulting salt front locations are depicted on these maps.

River mile estimates above RM 9.8 represent extrapolations of the trend line and may be less certain.



High and Low Tide Salt Front Locations for Five Flow Conditions

Lower Passaic River Restoration Project

Figure 10-27

